IN THE CLAIMS:

Please replace all previous listings of the claims with the following listing of the claims:

1. (Currently Amended) A method of processing messages in a computer, comprising:

providing in response to a request from a server application, allocating a system-supplied buffer to a-seckets the server application, wherein the server application is configured to exchange data with a client application running on another computer using a network-based socket, and wherein the system supplied buffer is of a sufficient size to contain the data;

reading writing the data into the system-supplied buffer; and

passing the system-supplied buffer to the network-based socket to allow the server application to continue processing while the data is sent to the client; and

sending, by way of the network-based socket, the data from the system-supplied buffer to the other another-computer via a network; and

freeing memory consumed by the system supplied buffer.

- 2. (Original) The method of claim 1, wherein the messages are client-server messages.
- 3. (Original) The method of claim 1, wherein the data is sent over a sockets streaming protocol.
- 4. (Cancelled)
- 5. (Original) The method of claim 1, wherein sending is performed without first copying the data into another buffer.
- 6. (Currently Amended) The method of claim 1, wherein the reading writing is performed by the seckets server application.

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- 7. (Currently Amended) The method of claim 1, further comprising, prior to providing the system-supplied buffer to the seekets server application:
 - receiving, by a socket, other data from the another computer via the network; and allocating the system-supplied buffer to contain the other data.
- 8. (Currently Amended) The method of claim 1, wherein providing the system-supplied buffer to the seckets server application comprises acquiring, by a socket, the system-supplied buffer from memory space not owned by allocated to the seckets server application.
- 9. (Currently Amended) The method of claim 1, wherein the system-supplied buffer is provided to the seckets server application by a socket in response to a buffer acquisition function call from the seckets server application.
- 10. (Currently Amended) The method of claim 1, wherein the system-supplied buffer is provided to the seekets server application by a socket after the sockets server application requests client data received en <u>over</u> a client connection with the another computer.
- 11. (Canceled)
- 12. (Currently Amended) A computer readable medium containing a sockets-based communications program which, when executed by a computer, performs operations for processing messages, the operations comprising:

providing in response to a request from a server application, allocating a system-supplied buffer to a seckets the server application, wherein the server application is configured to exchange data with a client application running on another computer using the communications program, and wherein the system supplied buffer is of a sufficient size to contain the data;

receiving the system-supplied buffer from the sockets server application, wherein the system-supplied buffer contains data read <u>written_into-to</u> the system-supplied buffer by the sockets server application; and

sending, by way of the communications program, the data from the systemsupplied buffer to the another computer via a network, thereby allowing the server application to continue processing while the data is sent to the client; and

returning the allocated system supplied buffer to the computer.

- 13. (Original) The computer readable medium of claim 12, wherein the messages are client-server messages.
- 14. (Cancelled)
- 15. (Original) The computer readable medium of claim 12, wherein sending is performed without first copying the data into another buffer.
- 16. (Currently Amended) The computer readable medium of claim 12, wherein the reading writing is performed by the seekets server application.
- 17. (Currently Amended) The computer readable medium of claim 12, further comprising, prior to previding allocating the system-supplied buffer to the sockets server application:

receiving, by a the communications program, over a socket, other data from the another computer via the network; and

allocating the system-supplied buffer to contain the other data.

18. (Currently Amended) The computer readable medium of claim 12, wherein providing the system-supplied buffer to the seekets server application comprises acquiring, by a socket, the system-supplied buffer from memory space not owned by the sockets server application.

- 19. (Currently Amended) The computer readable medium of claim 12, wherein the system-supplied buffer is provided to the seekets server application by the communication program using a socket in response to a buffer acquisition function call from the seekets server application.
- 20. (Currently Amended) The computer readable medium of claim 12, wherein the system-supplied buffer is provided to the seckets server application by a socket configured by a receive operation issued from the seckete server application and wherein the system-supplied buffer contains client data from the another computer.
- 21. (Original) The computer readable medium of claim 20, wherein providing the system-supplied buffer comprises allocating the system-supplied buffer according to a size of the client data.
- 22. (Original) The computer readable medium of claim 20, wherein the receive operation is configured with a buffer mode parameter indicating to the socket a buffer acquisition method for acquiring system-supplied buffer.
- 23. (Original) The computer readable medium of claim 22, wherein the receive operation is further configured with a record definition specifying to the socket a format of the client data.
- 24. (Currently Amended) A computer in a distributed environment, comprising: a network interface configured to support a network connection with at least one other computer in the distributed environment;
 - a memory containing contents comprising:
 - an operating system;
 - a sockets-server application;
 - a sockets-based communication facility;
- <u>a_system-owned memory space from which to allocate system-supplied</u> buffers; and

<u>an</u> application-owned memory space owned by the sockets server application; and

a processor configured by at least a portion of the contents to perform operations for processing client-server messages, the operations comprising:

providing a system-supplied buffer to the sockets server application for use in sending data to the at least one other computer.

in response to a request from the server application, allocating a systemsupplied buffer to the server application, wherein the server application is configured to exchange data with a client application running on another computer using a networkbased socket, and wherein the system supplied buffer is of a sufficient size to contain the data.

- 25. (Original) The computer of claim 24, wherein the distributed environment is a client-server environment.
- 26. (Currently Amended) The computer of claim 24, wherein the <u>a</u>protocol stack is configured for a sockets streaming protocol.
- 27. (Original) The computer of claim 24, wherein the processor is configured to send the data without first copying the data into another buffer.
- 28. (Currently Amended) The computer of claim 24, wherein providing the system-supplied buffer to the seekets server application comprises acquiring, by the socket, the system-supplied buffer from the system-owned memory space.
- 29. (Currently Amended) The computer of claim 24, wherein the operations performed by the processor further comprise:

reading writing data into the system-supplied buffer;

returning the system-supplied buffer to the socket-based communication facility; and

sending the data from the system-supplied buffer to the at least one other computer.

- 30. (Currently Amended) The computer of claim 29, wherein the system-supplied buffer is returned to the socket-based communication facility on a send operation and wherein sending comprises detaching the system-supplied buffer from the send operation to allow the sockets server application to continue processing while the data is sent.
- 31. (Currently Amended) The computer of claim 24, wherein the processor is configured to provide the system-supplied buffer to the seekets server application by the socket in response to a buffer acquisition function call from the seekets server application.
- 32. (Currently Amended) The computer of claim 24, wherein the socket is configured by a receive operation issued from the seekets server application and configured with a buffer mode parameter indicating to the socket a buffer acquisition method for acquiring system-supplied buffer and wherein the system-supplied buffer contains client data from the at least one other computer.
- 33. (Original) The computer of claim 32, wherein providing the system-supplied buffer comprises allocating the system-supplied buffer according to a size of the client data.
- 34. (Original) The computer of claim 32, wherein the receive operation is further configured with a record definition specifying to the socket a format of the client data.